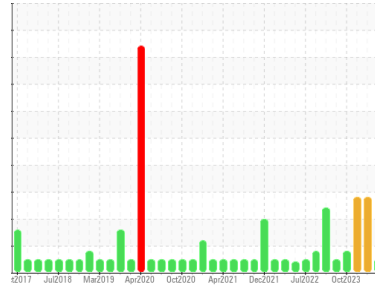




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(P633853)**  
 Machine Id  
**10774C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (30 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0101757</b>	GFL0090071	GFL0090116
Sample Date	Client Info	<b>29 Mar 2024</b>	02 Nov 2023	12 Oct 2023
Machine Age	mls	Client Info	<b>191200</b>	190800
Oil Age	mls	Client Info	<b>600</b>	600
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>15</b>	▲ 62	▲ 52
Chromium	ppm ASTM D5185m >4	<b>1</b>	▲ 15	▲ 11
Nickel	ppm ASTM D5185m >2	<b>0</b>	2	2
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>2</b>	5	5
Lead	ppm ASTM D5185m >30	<b>8</b>	16	13
Copper	ppm ASTM D5185m >35	<b>0</b>	3	2
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	1	1
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>14</b>	5	4
Barium	ppm ASTM D5185m 5	<b>0</b>	0	10
Molybdenum	ppm ASTM D5185m 50	<b>58</b>	68	62
Manganese	ppm ASTM D5185m 0	<b>1</b>	2	2
Magnesium	ppm ASTM D5185m 560	<b>652</b>	730	639
Calcium	ppm ASTM D5185m 1510	<b>1793</b>	1890	1772
Phosphorus	ppm ASTM D5185m 780	<b>845</b>	868	895
Zinc	ppm ASTM D5185m 870	<b>1041</b>	1162	1061
Sulfur	ppm ASTM D5185m 2040	<b>2647</b>	2353	2410

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>4</b>	17	17
Sodium	ppm ASTM D5185m	<b>19</b>	26	17
Potassium	ppm ASTM D5185m >20	<b>34</b>	1	4

## INFRA-RED

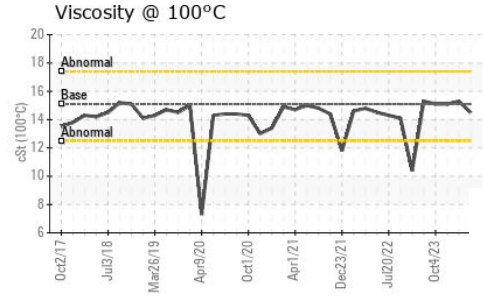
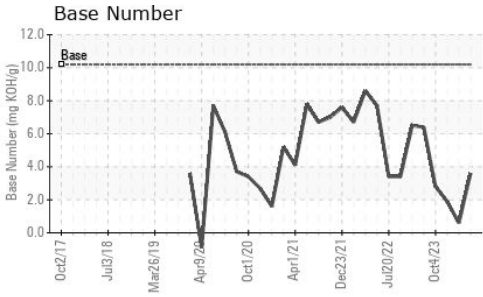
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0.1	0
Nitration	Abs/cm *ASTM D7624 >20	<b>12.8</b>	18.2	13.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>26.4</b>	34.2	30.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>23.5</b>	38.7	30.2
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>3.6</b>	▲ 0.6	▲ 1.9



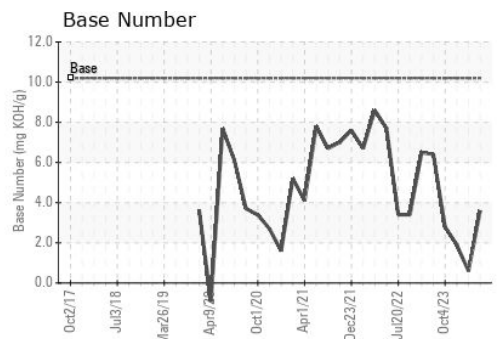
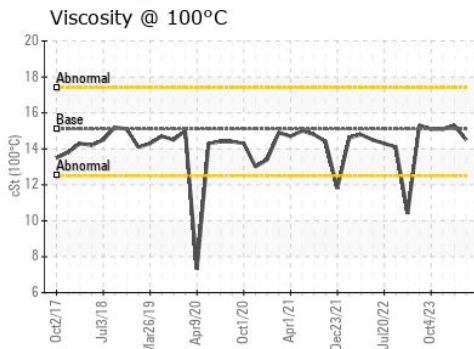
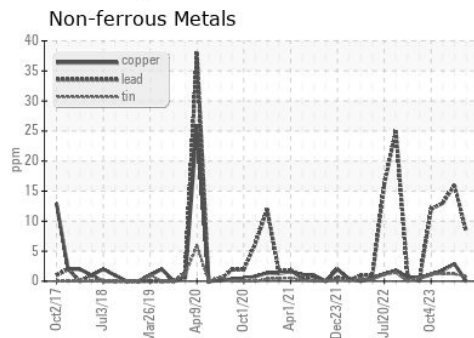
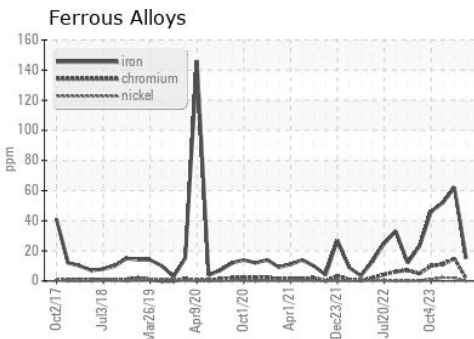
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.5</b>	15.3	15.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0101757 **Received** : 02 Apr 2024  
**Lab Number** : **06136051** **Tested** : 03 Apr 2024  
**Unique Number** : 10955516 **Diagnosed** : 03 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 030 - Conway Myrtle Beach**  
 3010 HWY 378  
 Conway, SC  
 US 29527  
 Contact: ARCILIO RUEZ  
 aruiz@gflenv.com

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)